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**APPENDIX B1  
ADVANCED DRAINAGE SYSTEMS, INC  
PIPE ENCODER SYSTEM**

76, 102, 127, 152 mm (3, 4, 5, 6 inch) Type C or CP pipe.  
102, 152, 203, 254 mm (4, 6, 8, 10 inch) Type S or SP pipe.  
610, 760 and 915 mm (24, 30 and 35 inch) Type S or SP pipe with spiral ribs.

The engraving is placed on the top of the corrugation of the pipe. The code contains information regarding location and time of manufacture in the following order: plant, month, day, year, and shift. Day and night figures are numbers and plant, month and year figures are letters. Each figure represents one piece of the code, except for the date, which uses two figures. All numbers used represent the true number.

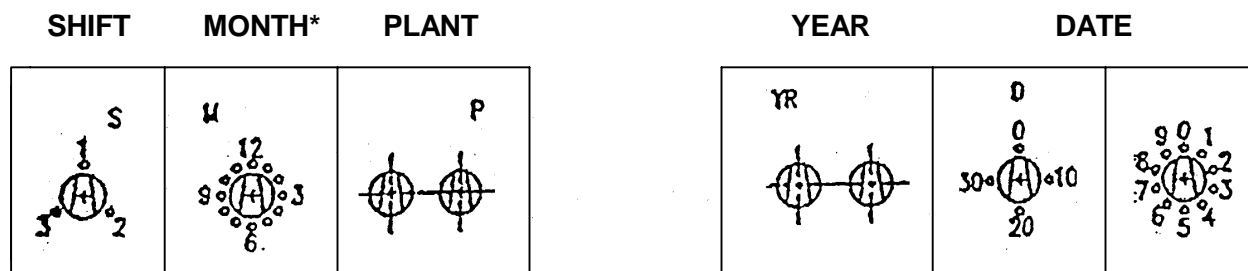
Example:

Plant	Month	Day	Year	Shift
E	A	01	S	1
Eagle Grove, IA	January	1	1994	1

<u>PLANT CODE</u>		<u>MONTH CODE</u>		<u>YEAR CODE</u>			
NAPOLEON, OH	A	MADERA, CA	P	JANUARY	A	1991	P
BUENA VISTA, VA	B	ROWLAND, NC	R	FEBRUARY	B	1992	Q
NEW MIAMI, OH	D	WOOSTER, OH	S	MARCH	C	1993	R
EAGLE GROVE, IA	E	SALT LAKE CY, UT	T	APRIL	D	1994	S
MUNCY, PA	G	VERSAILLES, KY	V	MAY	E	1995	T
HARVARD, IL	H	WASHOUGAL, WA	W	JUNE	H	1996	U
LONDON, OH	J	LAKELAND, FL	Y	JULY	J	1997	W
LIVERMORE, KY	K	MONTEZUMA, GA	Z	AUGUST	K	1998	X
LUDLOW, MA	L			SEPTEMBER	L	1999	Z
MONTICELLO, IL	M			OCTOBER	M		
ENNIS, TX	N			NOVEMBER	S		
OWOSSO, MI	O			DECEMBER	T		

203, 254, 305, 380, 455, and 610 mm (8, 10, 12, 15, 18, and 24 inch) Type C or CP pipe.  
305, 380, 455, and 610 mm (12, 15, 18, and 24 inch) Type S or Sp pipe with annular rings.

The engraving is placed radially on the top of the corrugation of the pipe. This encoder system uses letter codes for the plant and year. The shift, month, and date uses an analogous dial system. All dials are to be read clockwise using the arrow as the starting point.



**\*ACTUAL ENCODING ON PIPE DOES NOT INCLUDE NUMBERS**

**SHIFT** Labeled with a capital "S" followed by a circle with three dots. Each dot represents 1 shift. The large dot represents the 3<sup>rd</sup> shift. The arrow indicates the point at which to read. If the large dot is aligned with the arrow, the pipe was made on the 3<sup>rd</sup> shift. If reading clockwise from the large dot, the second small dot is aligned with the arrow, the pipe was produced on the second shift. If there is one dot from the large dot to the arrow, going clockwise, it was produced on the first shift.

**MONTH** Labeled with a capital "M," to the right of a circle with twelve equally spaced marks. One mark is a dot; the other marks are lines. There is an arrow at the 9 o'clock position outside of the circle on 8-inch pipe. The arrow is within the circle of 10, 12, 15, and 18-inch pipe. Each mark represents one month of the year. The dot represents December and each line clockwise of the dot represents the corresponding month from December. The months are to be read clockwise from the dot to the arrow.

For example, if there are five lines clockwise from the dot to the arrow, the pipe was produced in May. If the dot and the arrow align, the pipe was produced in December.

DATE - Labeled with a capital "D," this reading uses two circles. The first circle has four dots. One dot is large and represents zero. The other dots represent 10, 20, and 30. Zero is used for single digit dates and the tenth only. The other dots are used to make the first digit on double-digit dates. To obtain this digit, read clockwise from the large dot to the arrow. The number of dots from the large dot to the arrow represents the first digit.

The second circle is to the right of the first circle. This circle had 10 marks in it, one dot and nine lines. It is used to obtain all single digit dates, the tenth, and the second digit of all other double-digit dates. This number is obtained by reading clockwise from the dot to the arrow. The number of lines represents the digit. The dot represents the number ten. The first line clockwise from the dot represents the number one.